

WHAT IS CLAIMED IS:

1. A recording medium having a data structure for managing reproduction of data streams recorded on the recording medium, comprising:
 - a navigation area storing at least one playitem in a playlist, the playitem including a stream indication field indicating the data streams associated with the playitem.
2. The recording medium of claim 1, wherein the stream indication field indicates packet identifiers (PIDs) of the data streams in association with the playitem.
3. The recording medium of claim 1, further comprising:
 - a data area storing a plurality of data streams; and wherein the stream indication field indicates which of the plurality of data streams are associated with the playitem.
4. The recording medium of claim 3, wherein
 - the data area stores the plurality of data streams as packetized data streams, and each packet includes a packet identifier (PID); and
 - the stream indication field indicates the PIDs of the data streams associated with the playitem.

5. The recording medium of claim 4, wherein the data streams are elementary data streams.
6. The recording medium of claim 5, wherein the data area stores the elementary data streams as transport streams.
7. The recording medium of claim 6, wherein the data area stores the data streams multiplexed together.
8. The recording medium of claim 3, wherein the data streams are elementary data streams.
9. The recording medium of claim 8, wherein the data area stores the elementary data streams as transport streams.
10. The recording medium of claim 9, wherein the data area stores the data streams multiplexed together.
11. The recording medium of claim 3, wherein the data area stores the elementary data streams as transport streams.
12. The recording medium of claim 11, wherein the data area stores the data streams multiplexed together.

13. The recording medium of claim 3, wherein the plurality of data streams include video data streams.

14. The recording medium of claim 13, wherein the plurality of data streams include video data streams and at least one of audio data streams, graphics data streams and subtitle data streams.

15. A recording medium having a data structure for managing reproduction of data streams recorded on the recording medium, comprising:

 a navigation area storing at least one playlist, the playlist including at least one stream indication field indicating the data streams associated with the playlist.

16. The recording medium of claim 1, wherein the stream indication field indicates packet identifiers (PIDs) of the data streams in association with the playlist.

17. A method of recording a data structure for managing reproduction of data streams recorded on a recording medium, comprising:

 recording at least one playitem in a playlist on the recording medium, the playitem including a stream indication field indicating the data streams associated with the playitem.

18. A method of reproducing a data structure for managing reproduction of data streams recorded on a recording medium, comprising:

reproducing at least one playitem in a playlist from the recording medium, the playitem including a stream indication field indicating the data streams associated with the playitem.

19. An apparatus for recording a data structure for managing reproduction of data streams on a recording medium, comprising:

a driver for driving an optical recording device to record data on the recording medium;

a controller for controlling the driver to record at least one playitem in a playlist on the recording medium, the playitem including a stream indication field indicating the data streams associated with the playitem.

20. An apparatus for reproducing a data structure for managing reproduction of data streams recorded on a recording medium, comprising:

a driver for driving an optical reproducing device to reproduce data recorded on the recording medium;

a controller for controlling the driver to reproduce at least one playitem in a playlist from the recording medium, the playitem including a stream indication field indicating the data streams associated with the playitem.